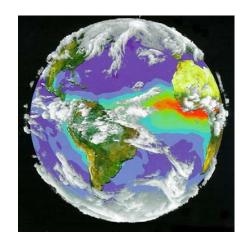


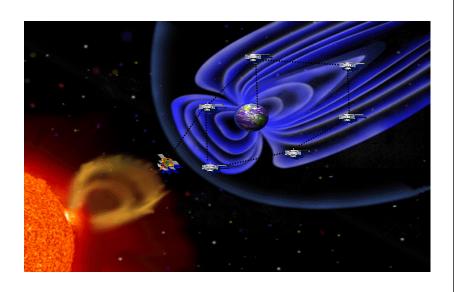
Information Systems Division / 580







Interoperable Models



Advanced flight and scientific information systems supporting the execution and analysis of scientific measurements and observations for Earth & Space Sciences and Exploration.

ALL HANDS

Nov.8, 2005

Agenda

State of the Division 9:00 AM

10:00 AM

10:30 AM

Nov. 2005

Overview on the New PMS

9:40 AM

Our Current Technology Climate

Needs/Opportunities for Science Data Utilization

State of the Exploration Initiative at ISD

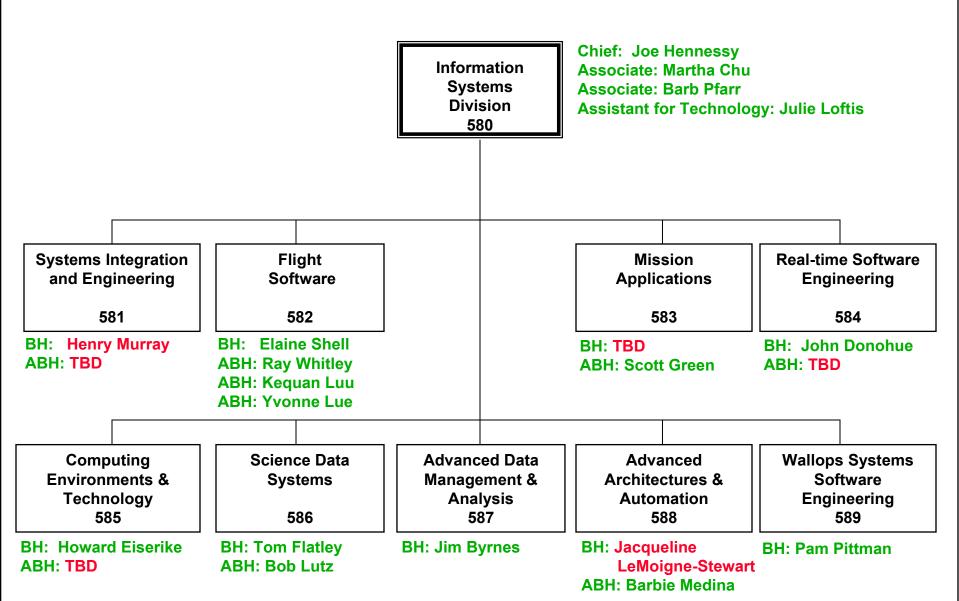
J. Hennessy

J. Loftis

S. Habib/610

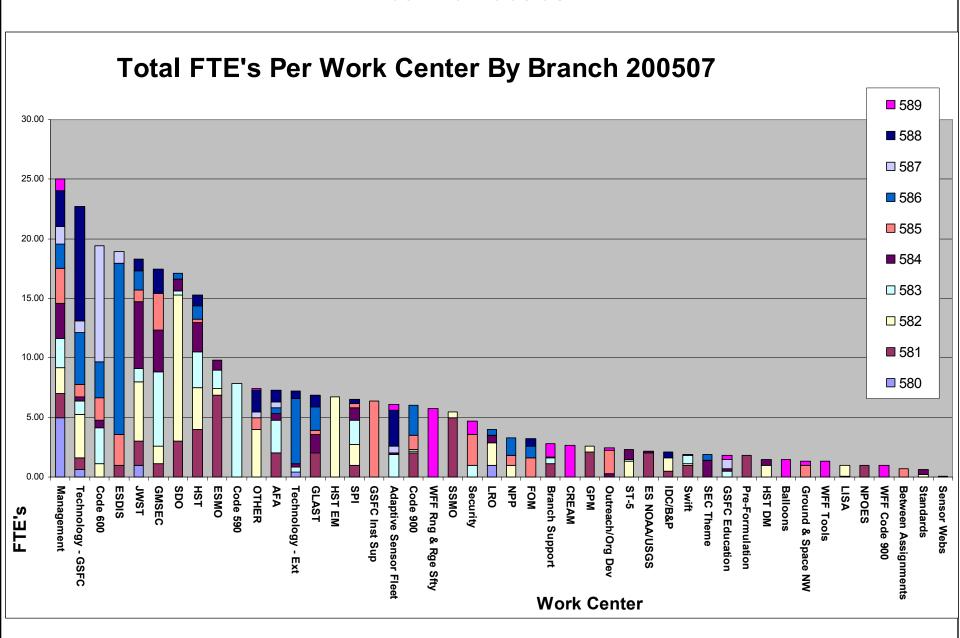
D. Smith

Information Systems Division (ISD/580) Organization

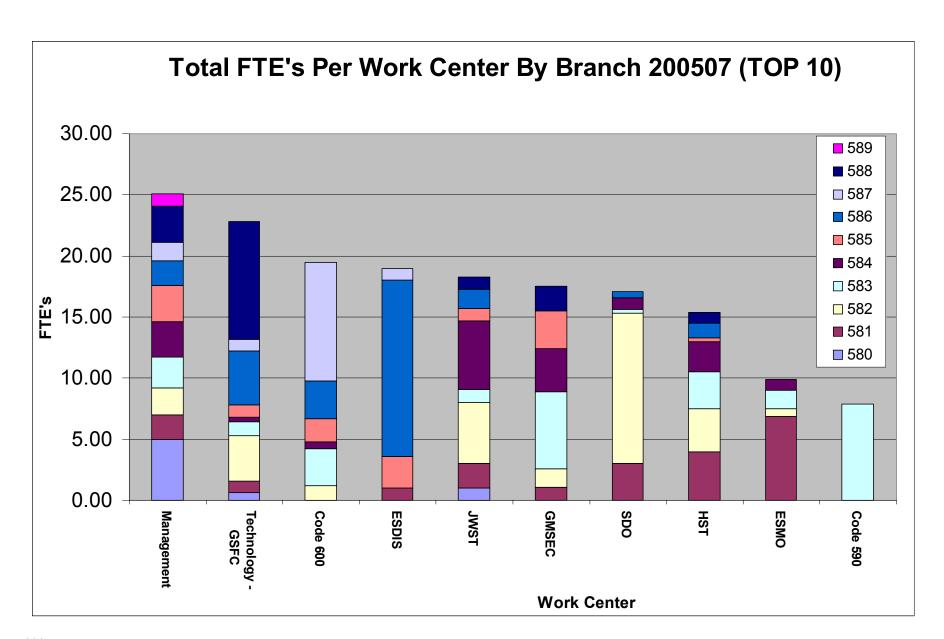


Revised 7/13/05

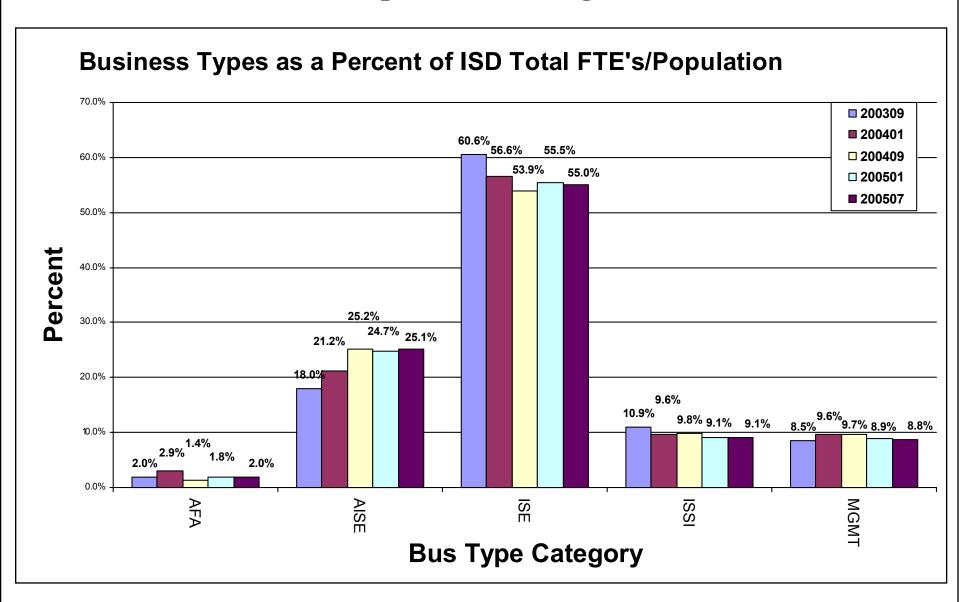
Baseline 200507



Baseline 200507

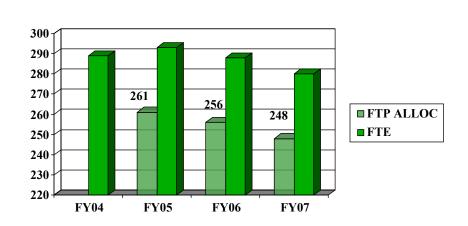


Baseline Comparison (through 200507)



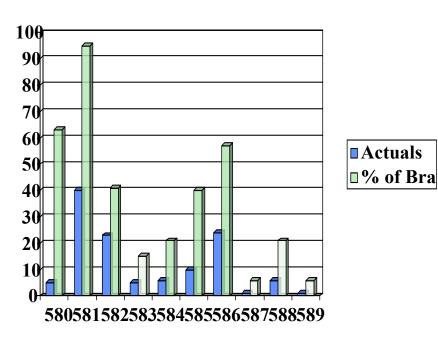
ISD Ceiling & Senior Positions Look

ISD FTP & FTE Levels



	04	05	06	07
FTP ALLOC	N/A	270	256	248
EOY	N/A	261	-	-
OTFTP	N/A	32	32	32
FTE	289	293	288	280

Senior Positions FY05



84 GS-14s and 49 GS-15s, including 13 Class Action Augments.

FY05 Hire Actuals into 580

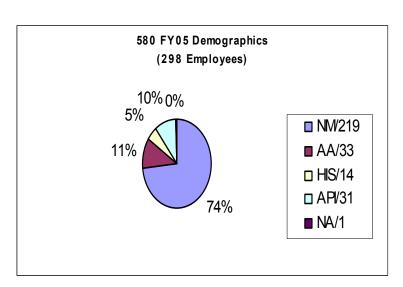
Code	Non FOut FTPs	Coop Cnv FTPs	FOut FTPs	Corp. FOs	Project Funded Terms
580	0	0	0	0	0
581	1	0	0	0	0
582	1	0	1	1	2
583	0	0	0	0	0
584	0	0	0	1	0
585	0	0	0	0	0
586	1	0	0	0	0
587	0	1	0	0	0
588	2	1	0	1	0
589	0	0	1	0	0
	5	2	2	3	2

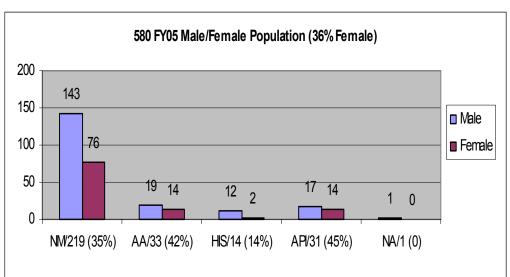
Nov. 2005

14

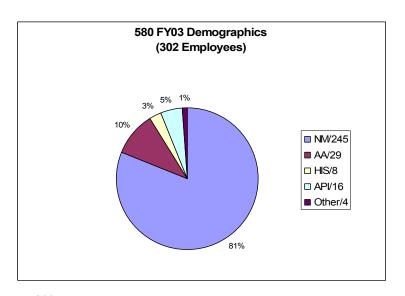
Totals:

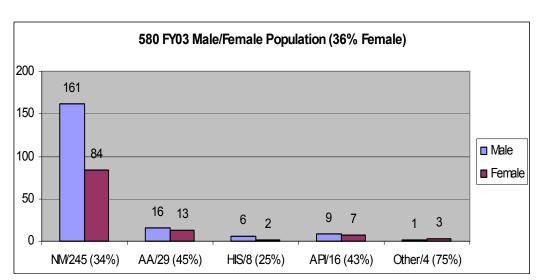
580 FY05 Demographics





580 FY03 Demographics





A few auxiliary observations on accomplishments and some concerns

OUR ACCOMPLISHMENTS IN MISSION SUPPORT CONTINUE TO BE OUTSTANDING ... for JWST & ISIM, SDO, ST-5, GLAST & ACD, LRO & LOLA, CREAM, ESDIS, HST, GPM, SSMO & ESMO, GMSEC/CFS, ...

and for the real effort/progress in GSFC's SPI.

My THANKS to each one of you!!

Leadership in Software/Data System Areas Outside of Direct Project Support ISD was a recognized team member on both awards for the 2005 NASA Software of the Year, partnering with JPL on the Autonomous Sciencecraft Experiment prototyped on EO-1 and with Code 600's Land Information System. Led NASA's open architecture in GMSEC/CFS focused through EI's C3I agency team. Advanced IP in space through near-Earth and lunar flatsat demonstations. Also, ISD & ESD engineers teamed with Cisco under a Space Act Agreement to develop a radiation-hard router for space applications. The ISD led the AETD Space Network Demand Access Service (DAS) Independent Review Team. ISD was asked to assist the NASA Chief Engineer's Office with CMMI pre-assessments for Systems Engineering across the agency. ISD leads/plays significant conference roles in IEEE/NASA Software Engineering Workshop, Formal Approaches to Agent Based Systems, Radical Agent Concepts, Symposium on Applications of Formal Methods, Space Internet Workshop, and others.

Created and lead the NASA journal 'Innovations in Systems & Software Engineering'. ISD participates in yearly GSFC-JPL Quality Mission Software Workshops to exchange information and

best practices. ISD organized the NASA GSFC Grid Workshop, to enable GSFC organizations and affiliated contractors

distributed data). ISD supported the demonstration of "21st Century Science" over the National Lambda Rail, a 10 giga-bit optical network between GSFC and Scripps Institution of Oceanography (SIO).

and universities to discuss their current data Grid-related technologies (distributed computing as well as

Chaired the IFM Funds Control Tiger Team, which resulted in the development of the Funds Control System to address a key shortfall of IFMP.

Some Notes of Concern ...

- □ IRAD/CC late & deep cuts have dislocated capable/quality people to Transition/Traditional until direct charges negotiated. Valuable technology efforts suspended/threatened (ASF, cFE,...). Last several years or more show a declining budget in data systems R&D investments, especially harsh in a full cost CS environment.
- □ Science Labs budget impacts are dislocating analysis support and promoting the use of more experienced people.
 - Overall full cost is moving some customers away from coops and fresh outs.
- ☐ FY06 "over capacity" surprise when already into FY06.
- ☐ Viability of planned ISD FTP reductions is a risk to be monitored.
- Center's IT budget is a minimal one at best. ISD's IT budget is both our IT and Tech Equipment budget, but reflects the minimal IT only amount.
- □ Full cost is focusing attention on staff charging overhead, especially ANW and Transition areas, as well as inappropriate Traditional charges. If in overhead, you need to get onto funded Work!

Still not a bleak as industry's "work at will".

Managing Human Capital at GSFC: Fairness, Transparency, and Accountability

- extract on promotion process only

Accretion Promotion Validated Criteria ...

visit the OHR web site for the official materials on this and many other important topics!

October 2005
Class Action Implementation Team

Background

- □ Class Action Settlement Agreement required a review of Goddard's Performance Management System (PMS) conducted by Independent Expert Personnel Decisions Research Institute, Inc. (PDRI)
 - Performance Appraisals
 - Accretion and Career Ladder Promotion Processes
 - Awards
 - Training (with emphasis on leadership training)

The objective of the performance management systems review was to produce and implement a revised and objective, nondiscriminatory performance management system

New Validated Accretion Criteria

- □ PDRI Recommendation #13: "PDRI recommends that job analyses be conducted to determine the critical dimensions or areas in which candidates will be asked to provide....."
- □ Perform Content Validation Study
 - Objective: Demonstrate that critical work activities performed (as rated by both incumbents to the positions and their supervisors) are related to the accretion promotion criteria
 - GSFC scientists and engineers were involved in Study at multiple stages including:
 - Responding to questionnaires on importance of various work tasks
 - Piloting revised promotion packages
 - Linking specific work tasks to criteria statements

□ Result: Validated Criteria for 14-15 S&Es

Accretion vs. Competitive Placement Promotion

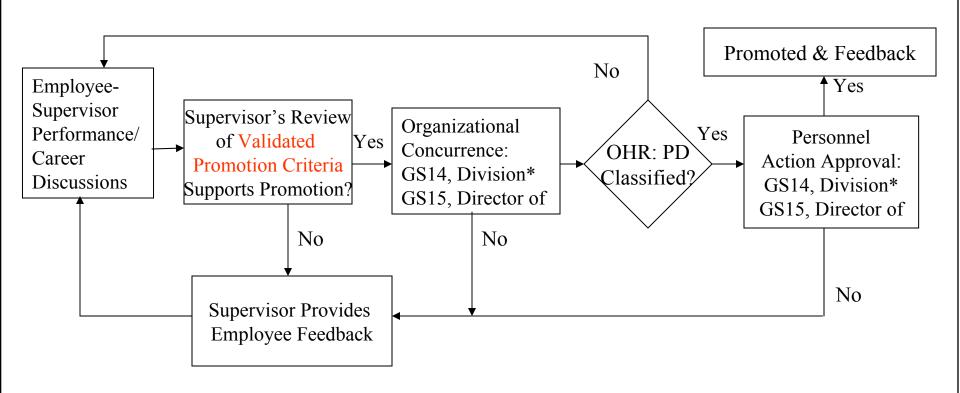
ACCRETION

- ☐ Employee is at FPL
- □ Driven by employee's impact on the position
- □ Based on the person not the position
- ☐ Must meet <u>all</u> promotion criteria
- ☐ Must already be working at the next higher grade level on a continual basis with the expectation that the work will continue as long as that person holds that position
- When position vacated, grade reverts back to previous grade level

COMPETITIVE

- □ Employees compete for higher FPL
- ☐ FPL established based on the position with classified PDs
- Position/FPL survives departure of individual
- ☐ Candidates must show that they have 1 year of specialized experience at the next lower grade
- Employee is not to be expected to already be performing at higher level prior to selection

Promotion Process – Nov. 2005 GS14/15 S&E Accretions Standard Process



^{*} Or Equivalent

^{**}Note: Supervisors are encouraged to continually consult with their Human Resources Specialist regarding the level of work that is being reviewed.

Summary of Features for New S&E Accretion Process

- Validated Accretion Criteria for 14 & 15 Scientists & Engineers
- All Criteria must be demonstrated within last 3 years
- Standardized structured information provided via Accretion Promotion Package
- Authority for Approval delegated to local organization
- No Peer Panels
- Promotion Process Not Resource Limited
- Contingent on Position Description classification at higher grade

Promotion Process – Nov. 2005 GS14/15 Accretions

- □ Accretion Promotion Package is a formatted write-up by the supervisor with input from the employee addressing the employee's accomplishments in satisfying the appropriate promotion criteria
- □ Decision to Evaluate/Submit Accretion Promotion Package for Organizational Concurrence initiated by either:
 - Supervisor
 - Time In Grade Trigger
 - Beginning at average time in grade of promoted employees, thereafter, at employee request, not to exceed once per year

Time in Grade Mechanism

- □ GSFC calculated the average time in grade for S&Es before accretion promotion post Phase 2 Promotion Review Process 6 years
- □ Supervisor is responsible for identifying employees who are eligible for review
- ☐ Time frame for completion of review 30 days